

## PROGRAMME & COURSE OUTCOMES FOR MD FAMILY MEDICINE

### PROGRAMME OUTCOMES

By the time the students complete the course they must demonstrate the ability to

1. Diagnose and manage common illnesses in a family including children, elderly and differently abled persons
2. Organise and perform diagnostic and therapeutic procedures in a community setting.
3. Take steps to promote positive health – physical, emotional and social
4. Provide continuity of care including palliative care
5. Detect and manage emergencies in community settings
6. Detect situations for referral and organise referral.
7. Promote Teamwork & Good communication including confidentiality, empathy and social justice
8. Promote ethical principles in various roles
9. Document the observations, organise data, conduct research and plan corrective steps

Coordinate the interdisciplinary and social interactions

**At the end of the MD programme, the post graduate should also be able to:**

- a) Diagnose and treat the *whole spectrum of diseases including undifferentiated problems multiple co-morbidities* presenting in the community at primary care level, both chronic and acute, affecting all age groups, including emergency and elective problems, adolescent behavior problems etc. using standard treatment protocols and guidelines including IMNCI guidelines..
- b) Make logical and appropriate decisions regarding *referral to tertiary care centres*.
- c) Employ a *patient-centred approach*.
- d) Practice a *multi-disciplinary approach to health-care*, and work as a leader.
- e) Provide *continuity of care* by engaging in a two-way referral network between primary/secondary and tertiary levels.
- f) Provide community oriented care to the defined population served by them.
- g) Provide family oriented care to the individuals/families served by them.
- h) Be involved in health promotion, disease prevention, rehabilitation and palliation.

**The student should be able to elicit clinical history, perform a comprehensive physical examination and demonstrate problem-solving competencies like:**

- a) Ability to generate an initial list of differential diagnoses given a specific chief complaint and patient characteristics.
- b) Ability to re-rank the differential diagnoses based on information gathered from the history, physical, and auxiliary studies.
- c) Ability to explain a mechanism for each aspect of a patient's problem, including biological, behavioral, and social aspects.
- d) Ability to evaluate scientific/clinical information and critically analyze conflicting data and hypotheses.
- e) Ability to identify and find information relevant to the clinical problem from print and electronic media
- f) Ability to organise medical recordkeeping.
- g) Ability to apply the principles of bioethics, legal matters pertaining to health care, gender issues, social and cultural beliefs of the community.
- h) Ability to keep up to date with new information in all branches of clinical medicine with special relevance to primary care.
- i) Ability to organise cost-effective patient care.
- j) Ability to organize medical data in oral and written presentations.
- k) Use and interpretation of diagnostic procedures and laboratory data.

## **Course Outcome:**

**At the end of the course, the student should have acquired the following skills:**

### **General Medicine**

At the end of the course, the family physician should be able to perform basic life saving and regular skills learnt in Medicine Department/ICU.

### **Childhealth**

Intravenous access, Lumbar puncture, Neonatal resuscitation, Assessment of the newborn, Assessment of nutritional status and management of the malnourished child including preparation of a diet sheet, Use the IMNCI guidelines to manage childhood diseases, Management of common childhood emergencies including seizures, burns, poisoning, dehydration, acute severe breathlessness.

### **General Surgery**

Recognition and evaluation of conditions requiring surgical intervention, Management and appropriate referral of primary surgical emergencies including burns, haemorrhage, shock, sepsis, acute abdomen, head injuries, Management of minor trauma, injuries, including immediate and resuscitative treatment of acute injuries, management of electrolyte and fluid requirements, blood transfusion, Foreskin dorsal slit, Fine needle aspiration cytology (FNAC), Proctoscopy, Incision & drainage abscess, Suturing, wound dressing/bandage, Circumcision, Reduction of paraphimosis, Vasectomy, Hydrocelectomy, Excision and biopsy of superficial swellings, Venesection, Suprapubic cystostomy

### **Orthopedics**

Emergency care of patients with multiple injuries, transportation of trauma patients, splinting, application of casts, diagnosis and management of injuries, sprains, control of external haemorrhage, fractures and dislocations with proper referral, Management of Colle's fracture, fracture clavicle, shoulder dislocation, Provide health education for prevention of injuries.

## **Maternal and Women's Health**

Antenatal care, Conduct of a normal delivery, Detection of high-risk ante-natal cases, and perform LSCS or refer when necessary, Vacuum and forceps delivery, Management and timely referral of post-partum haemorrhage and refer appropriately, Care of the new-born, Papsmear, Cervical and endometrial biopsy, Dilatation and curettage, Insertion and removal of IUCD, Provide contraception advice counseling, Medical termination of pregnancy.

## **Community Health:**

Investigation of an epidemic, Implementation of National health programmes, Health education for schools, health workers and the community.

## **Otorhinolaryngology:**

Removal of wax from external auditory canal, foreign body removal, nasal packing, Ear lobe repair, ear syringing, tracheostomy, cricothyroidectomy

## **Ophthalmology:**

Fundus examination with an ophthalmoscope, Vision screening, Epilation, Removal of superficial foreign body, Fluorescent dye examination of cornea

## **Dermatology:**

Minor surgical procedures in dermatology including electrocautery, chemical cauterization, skin-biopsy.

## **Geriatrics:**

Assessment for risk of falls, Assessment and management of depression in the elderly patients, Management of the agitated elderly patient

## **Pain and palliative care:**

Management of common symptoms in terminally ill patients and its management, management of pain, Provision of end of life care, Management of grief, Breaking bad news

## **Emergency medicine:**

Initiate ion of management of patient in shock, status epilepticus, poisoning, acute respiratory distress,coma, Skills for life-saving procedures in medical, obstetric, paediatric, including neonatal resuscitation, surgical and traumaemergencies, Management of common emergencies seen in family practice including cardio - vascular, respiratory, gastrointestinal, neurological, metabolic and others like snake bite and heat stroke.

Basic and advanced life support, cardio-pulmonaryresuscitation, Endotrachealintubation, Intravenous access (peripheral and central lines, venesection, intravenousinfusion), Disaster management in relation to health anddisease.

## **Mental health**

Recognition and management of depression and anxietystates, Recognition and referral of patients withpsychosis, Follow-up care of patients withpsychosis, Care of patients with unexplained symptoms without organicbasis, Care of patients undergoing bereavement, social and familystress, Diagnosis, detoxification and team based management of patients with substanceabuse, Assessment of suiciderisk.

### **Objectives of the course :**

**PaperI:** Principles of Family Medicine, basic sciences and laboratory sciences relevant for FamilyMedicine

**PaperII:** General Medicine including Nutrition, Infections diseases, Lifestyle Diseases, Non-communicable disease & Allied Sciences including psychiatry, geriatrics, dermatology, pulmonology [As applied toFamily Medicine].

**PaperIII:** Surgery and Allied Sciences including ENT, Ophthalmology, Orthopedics, pain, and palliative care, emergency care [As applied to FamilyMedicine]

**PaperIV:** Obstetrics and gynecology, pediatrics, community medicine, Recent advances [As applied to Family Medicine]